

**MOTION NO. M2011-28**
**Systems Engineering Construction Management for the University Link Project**

<b>MEETING:</b>	<b>DATE:</b>	<b>TYPE OF ACTION:</b>	<b>STAFF CONTACT:</b>	<b>PHONE:</b>
Capital Committee	04/14/11	Recommendation to Board	Ahmad Fazel, DECM Executive Director	206-398-5389
Board	04/28/11	Final Action	<b>Justin Garrod, Senior Systems Engineer</b>	206-398-5384

**PROPOSED ACTION**

Authorizes the chief executive officer to execute a contract with Hatch Mott MacDonald, Inc. to provide systems construction management services for the University Link Project in the amount of \$13,218,955, with a 5% contingency of \$660,948, for a total authorized contract amount not to exceed \$13,879,903.

**KEY FEATURES**

- Hatch Mott MacDonald, Inc. will provide systems construction management (CM) services for the University Link systems contracts, including administering construction contracts on behalf of Sound Transit; providing a resident engineer, assistant resident engineers, inspectors, and office support as needed for the duration of construction; and providing pre-construction services such as constructability reviews, support in preparation of bid documents, and coordination with other stakeholders.
- Beginning the work now provides an opportunity for the systems CM contractor to assist with the review and finalization of contract documents for systems contracts that will be issued later this year.
- Executing the contract at this time will allow the systems CM contractor to participate in a Washington State Project Review Committee meeting in May related to the University Link U830 Systems General Contractor/Construction Manager (GC/CM) contract request for approval.

**PROJECT DESCRIPTION**

University Link (U-Link) is a 3.15-mile light rail extension of Link Initial Segment, located entirely underground with tunnels traveling east from Pine Street, under the I-5 freeway to an underground station at Capitol Hill, continuing north beneath SR 520 and the Lake Washington Ship Canal to an underground station on the University of Washington campus, near Husky Stadium.

**FISCAL INFORMATION**

(Year of Expenditure \$000)

University Link	Adopted 2011 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
Agency Administration	115,229	42,583		42,583	72,646
Preliminary Engineering	24,349	24,266		24,266	82
Final Design	87,633	77,715		77,715	9,919
Right of Way	152,332	124,800		124,800	27,532
Construction	1,158,183	712,130		712,130	446,053
Construction Services	95,726	66,250	13,880	80,130	15,596
Third Party Agreements	18,646	11,407		11,407	7,239
Vehicles	103,909	99,185		99,185	4,724
<b>Total Current Budget</b>	<b>1,756,007</b>	<b>1,158,335</b>	<b>13,880</b>	<b>1,172,215</b>	<b>583,792</b>

**Construction Services Phase**

Systems CM	11,350	-	13,880	13,880	(2,530)
Other Construction Services	80,791	66,250		66,250	14,541
CS Unallocated Contingency	3,585	-		-	3,585
<b>Total Phase</b>	<b>95,726</b>	<b>66,250</b>	<b>13,880</b>	<b>80,130</b>	<b>15,596</b>

Contract Amount	Board Approvals to Date (F)	Current Approved Contract Value (G)	Proposed Action (H)	Proposed Total for Board Approval (I)	Proposed Contract Value (J)
Contract Amount	-	-	13,219	13,219	13,219
Contingency	-	-	661	661	661
<b>Total Contract</b>	<b>-</b>	<b>-</b>	<b>13,880</b>	<b>13,880</b>	<b>13,880</b>
Percent Contingency	0%	0%	5%	5%	5%

**Budget Shortfall**

Task Level	\$Amount (K)	Potential Resources (L)	Source (M)
Systems CM	2,530	3,585	Unallocated contingency within the Construction Services phase of the University Link project

(B) COMMITTED TO DATE amounts are from Link WBS Report as of February 2011 + approved and pending board actions not recorded as of 2/28/11, or submitted after that date, and include allocated contingencies.

**SMALL BUSINESS PARTICIPATION**

Sound Transit Goal:

Small Business: 10%

DBE: 5%

Commitment:

Small Business: 11.3%

DBE: 5.9%

Subconsultant/Subcontractor	Business Type	% of Work	Dollar Value
Jimale Technical Services, LLC	DBE	2.75%	\$363,636
CS3W Associates, Inc	DBE	3.16%	\$416,912
Landon Construction Group, LLC	Small Business	2.86%	\$378,352
LM Telecommunications	Small Business	2.55%	\$337,477
<b>Total</b>		<b>11.3%</b>	<b>\$1,496,377</b>

## **EQUAL EMPLOYMENT WORKFORCE PROFILE**

3,767 employees; 26.3% women; 21.3% minorities.

## **BACKGROUND**

Hatch Mott MacDonald will oversee the systems contracts for the University Link project, will support pre-construction work for the U830 Systems contract, and will participate in the project review of the U830 Systems contract by the Washington State Project Review Committee.

The University Link systems contracts involve the design and installation of track and special trackwork, signaling system, traction power, overhead catenary system, communications equipment, supervisory control and data acquisition (SCADA), emergency ventilation controls and network systems. The first of the systems contracts is expected to be issued in June 2011. Hatch Mott MacDonald will assist with reviewing and finalizing these contract documents.

Staff has recommended that the GC/CM alternative public works method be used for the U830 Systems contract because of the complex nature of the systems work. Pre-construction services for the U830 Systems GC/CM contract will include evaluation of the project schedule, phasing and interface requirements, constructability issues and value engineering proposals. Following these activities, Sound Transit will negotiate a contract with the GC/CM contractor, for the systems and track construction and establish a Maximum Allowable Construction Cost (MACC) as the basis for award of the GC/CM contract.

Hatch Mott MacDonald will support the pre-construction work with the selected GC/CM contractor through approximately October of 2012 when Sound Transit expects to have established a MACC for the U830 Systems contract.

The Washington State capital projects advisory review board and its subcommittee, the project review committee, review and approve alternative public works projects such as GC/CM and Design Build. Hatch Mott MacDonald will participate in this review in order to bring the GC/CM experience and expertise necessary to supplement Sound Transit staff experience.

Sound Transit issued a Request for Qualifications and performed an extensive evaluation of the statement of qualifications submitted. Four consultants submitted qualifications. Hatch Mott MacDonald was selected as the most qualified of the proposers.

## **ENVIRONMENTAL COMPLIANCE**

Environmental review for University Link was completed with the North Link Final Supplemental EIS (2006) and North Link federal Record of Decision (2006).

JI 03/21/2011

## **TIME CONSTRAINTS**

A one month delay would create a significant impact to the project schedule. The systems construction management consultant is needed to participate in the Washington State project review committee meeting in May to gain approval to proceed with the alternative procurement GC/CM contracting method for the University Link project.

**PUBLIC INVOLVEMENT**

Not applicable to this action.

**LEGAL REVIEW**

LA 4/8/11

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A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract with Hatch Mott MacDonald, Inc. to provide systems construction management services for the University Link Project in the amount of \$13,218,955, with a 5% contingency of \$660,948, for a total authorized contract amount not to exceed \$13,879,903.

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**MOTION:**

It is hereby moved by the Board of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract with Hatch Mott MacDonald, Inc. to provide systems construction management services for the University Link Project in the amount of \$13,218,955, with a 5% contingency of \$660,948, for a total authorized contract amount not to exceed \$13,879,903.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on April 28, 2011.



Aaron Reardon  
Board Chair

ATTEST:



Marcia Walker  
Board Administrator